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XXIII. *An Observation on the Planet Venus, (with regard to her having a Satellite) made by Mr. James Short, F. R. S. at Sunrise, October 23. 1740.*

Directing a reflecting Telescope of 16.5 Inches Focus, (with an Apparatus to follow the diurnal Motion) towards *Venus*, I perceived a small Star pretty nigh her; upon which I took another Telescope of the same focal Distance, which magnified about 50 or 60 times, and which was fitted with a Micro-meter, in order to measure its Distance from *Venus*; and found its Distance to be about $10^{\circ}. 2'. 0''$. Finding *Venus* very distinct, and consequently the Air very clear, I put on a magnifying Power of 240 times, and, to my great Surprise, found this Star put on the same Phasis with *Venus*. I tried another magnifying Power of 140 times, and even then found the Star under the same Phasis. Its Diameter seemed about a Third, or somewhat less, of the Diameter of *Venus*; its Light was not so bright or vivid, but exceeding sharp and well defined. A Line, passing through the Centre of *Venus* and it, made an Angle with the Equator of about 18 or 20 Degrees.

I saw it for the Space of an Hour several times that Morning; but the Light of the Sun increasing, I lost it altogether about a Quarter of an Hour after Eight. I have looked for it every clear Morning since, but never had the good Fortune to see it again.

Cassini,

Cassini, in his *Astronomy*, mentions much such another Observation.

I likewise observed Two darkish Spots upon the Body of *Venus*; for the Air was exceeding clear and serene.

XXIV. *An Occultation of Jupiter and his Sattellites by the Moon, October 28. 1740. in the Morning; observed at Mr. George Graham's, F. R. S. House in Fleetstreet, London, by Dr. Bevis and Mr. James Short, F. R. S.*

| Times by the Clock, <i>October 26.</i> Clock above Stairs. h. ' . ''. | Apparent Times. <i>October 27.</i> h. ' . ''. |
|--|--|
| 23. 46. 38. | 0. 0. 0. |
| Clock below. | |
| 14. 49. 4. | 15. 2. 25. |
| 14. 52. 32. | 15. 5. 53. |

THE Sun's Centre passed the Meridian in the Transitory.

The Moon's illuminate Limb preceded *Jupiter* in Right Ascension 1'. 38'' in time.

The same Limb preceded *Jupiter* 1'. 31''.

These were taken with a reflecting Telescope, 9 Inches